Date:

Wednesday, 7/12/2006 3:24:21 PM

✓ User:

Kim Johnston

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 27877

Estimate Number

: 10623

P.O. Number

-MIA

This Issue

: 7/12/2006

Prsht Rev.

: NIA : 25770

S.O. No. : N LA

Type

: PURCHASED PARTS

Previous Run Written By

First Issue

Checked & Approved By

Comment

: Est: A 00.01.14

Drawing Name

Part Number

Material

Drawing Number

: D2947 REV A1 .== : N/A

: CLAMP

: D2947

Project Number Drawing Revision

Al4:

Due Date : 8/15/2006 Qty:

100 Um:

Each

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description: **PURCHASING**

1.0

PG

Comment: PURCHASING

> Laser cut as per Dwg D2947 Material release note required

CL07113104

100

2.0

D2947B

Comment: Qty.:

1.0000 Each(s)/Unit Total: 100.0000 Each(s)

Clamp

Clamp

3.0

PACKAGING 1

PACKAGING RESOURCE #1

DIMENSIONAL CHECK



Comment: PACKAGING RESOURCE #1

Recieive & Inspect for Transit Damage

Ensure Material Release Note is attached

4.0 QC6

Comment: DIMENSIONAL CHECK

(9.312" center to center) N/A

5.0

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESQURCE 1

1- Deburr any rough edges & tumble SAD 06:08:15 160

2-Bend as per Dwg D2947



Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector						
06-06-14	5.0	Add tumble: remove At Step 70	FF	06.08.18	160		65.08-14						

NCR:			WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC	T	Corrective Action Section B	Verification	Approval Design Mgr	Approval QC Inspector							
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Section C									
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1		***************************************		4n	49									
·														
														
		₩												

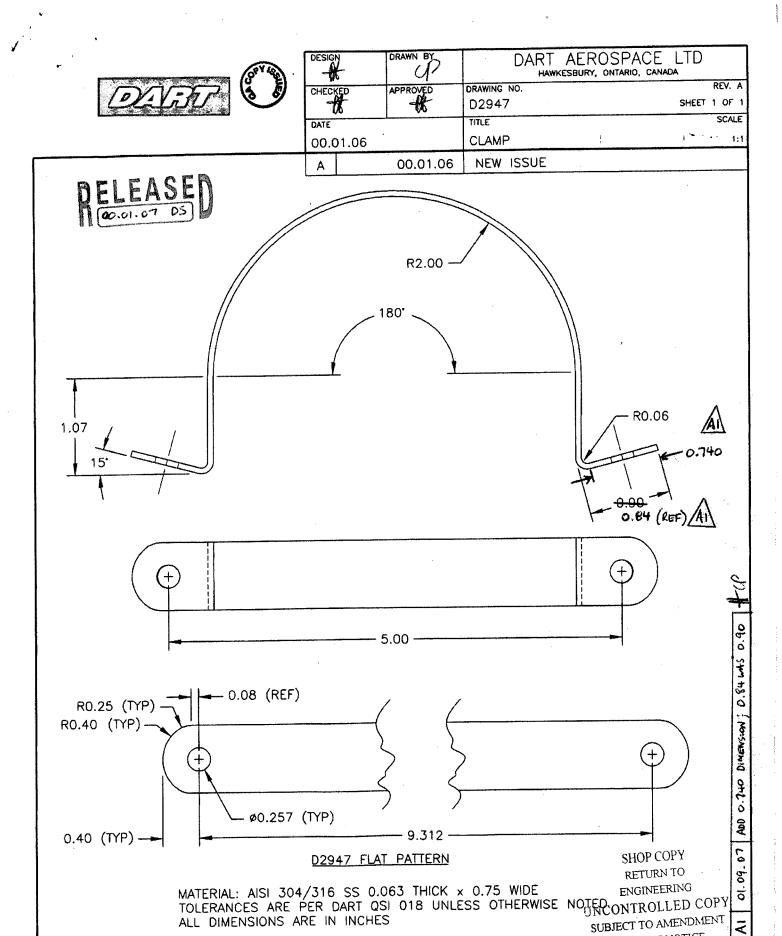
Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date: <u>CUG /66.</u>
NOTE: Date & initial all entries			QA: N/C Closed:	Date:
H:\forms\Quality Assurance\approved for	ms\NCRWO revC			e e e e e e e e e e e e e e e e e e e

Wednesday, 7/12/2006 3:24:21 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: CLAMP Customer: CU-DAR001 Dart Helicopters Services Part Number: D2947 Job Number: 27877 Job Number: Seq. #: **Machine Or Operation:** Description: INSPECT WORK TO CURRENT STEP 6.0 QC5 Comment: INSPECT WORK TO CURRENT STEP SMALL FAB 1 7.0 Tumble PACKAGING RESOURCE #1 PACKAGING 1 8.0 100 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: DOCUMENT CONTROL 9.0 DC Comment: DOCUMENT CONTROL Inspection Level 21 C206108121 Job Completion

Dart Aerospace Ltd

W/O:			WO	RK ORDER CHANGES					
DATE STEP		PR	OCEDURE CHAN	Ву	Date	Qty	Approval Mfg / Design Mgr	Approva QC Inspector	
!									
k									
j									
NCR:			WORK ORDE	R NON-CONFORMAN	CE (NCR)			
DATE	STEP	Description of NC		Corrective Action Section B		Verifi	cation	Approval	Approval
	SIEF	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Sect	ion C	Design Mgr	QC Inspector
									-
	<u> </u>						· · · -		•
Part No	o:	PAR #:	Fault Category	: NCR: `	res No	DQA:		Date:	
NOTE: D	ate & initia	al all entries		(QA: N/C CIG	sed:		Date:	<i>(</i>

H:\forms\Quality Assurance\approved forms\NCRWO revC



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ALL DIMENSIONS ARE IN INCHES

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	K		AK Ste	el			•	Cosh	al Test eton V	Vork	,		Load No. SRN No.	• • •	83163 83163				
CUSTOMER	FERGUSON MI 3475 SYMMES HAMILTON, O	ROAD	С.		SHIP TO	FERGUS METAL I 3475 SYN	ON METAL ON METAL PROCESSII AMES ROA ON, OH	LS INC/A NG DIVIS ND	1.		7	533 UNIT	O. PROC 91008 S -:PROD 6.9900 X (U CT: -			010	YERS OR 08517	DER NO.
	KIDID	PIECE	HEA	T.	L	PARENT	COIL ID		VET WEIG								·		
SK	D759479	1	7360	176	0	686188-02	В	1	12 ,9 70 LBS.		. \								
T	DTAL SKIDS	TOTAL			1				TOTAL NI	et wei	GHT		<u> </u>			ì			
	1	1	-		T				12,970 LBS	. 5,883	KG.								·
	L-Ladle Analysi	s of Heat	P-P	roduct	Ana	lysis of Par	ent Coil	CHE	MICAL A	ANAL	YSIS								
	ID	С	MN	P		S	SI	CR	NI	МО	N	C	U						·
L	7360176	.012	1.30	.025	7	.001	.45	18.24	8.61	. 32	.037	. 35							
	SHIPPING DAT	302/304,	/30#L ST	AGAG	SS	I G RION	NO INT SOURC ALLOY COILEI MATER MISH SLI	ENTION E, AND I S WERE D PRODU HAL MEI PRO T EDGE BE DET	AL ADDITI OW MELT MADE THE CTS CONT ETS REQUI * AMS ERMINED	ONS OF ING ALL ROUGH AIN NO REMEN DESC. 5513 F BY ASS	MERCURY LOYS OR EI OUT THE P WELDS ITS OF TYP RIPTION WITH AK THE 8 *	OR M LEMEN ROCES ES 304 V STEE AMS 5	RED IN THE ERCURY CO ITS CAPABI SSING OF TO & 304L FOR L DOCUME 511 H WI 1/30/06 T	MPOUNE OF FO HIS MAT REFERE TED EX	ormin Terial Encei Cept Stebi	ig Low i L. D, specii Lions D L. Docum	MELTING FICATION DATED 07	NS //11/05 EXCEPTION	3N2 DATE

CR SHT TYPE 302/304/304L STAINLESS #2B FINISH SLIT EDGE * AMS 5513 H WITH AX STEEL DOCUMENTED EXCEPTIONS DATED 07/11/05 TO PARA GRAPHS * ASTM A 240 -04 EX PARA 3.1.9 ELONG WILL BE DETERMINED BY ASTM E 8 * AMS 5511 H WITH AX STEEL DOCUMENTED EXCEPTIONS DATE D 07/11/05 TO PARAGRAPHS * AMS 5516 N WITH AX STEEL DOCUMENTED EXCEPTIONS DATED 03/30/06 TO PARAGRAPHS-1.2.PRODUCT END USE; 2.SPE C. REVIEW AND CERTIFICATION; 3.4 ASTM A 666 -03 * MILS-5059 D-AMEND-3 * UNS-S30403 9TH EDITION * FMI-304L/304/302 ISSUE 7, 2/13/06 * ASME SA-240 SECTION II PART A (2004 ED, 2005 ADDENDA) EX PARA 3.1.7 DIMENSIONAL TOLS FROM ASME SA-480 2004 ED APPLY * UNS-S30400/S30200

	POS (F/T)	DIR (L, T, D)			STRENGTH	.2% OFFSET	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front		
0686188-02B	Т	T	A.S.T.M	58.6	83.2	37.6	B 78	В 80	<u> </u>	l

REVIEWED BY Q.C.



AK Steel Corporation

Metallurgical Test Report Coshocton Works Coshocton, OH. 43812

Page 2

Load No.

SRN No.

7883163 7883163

BUYERS ORDER NO.

01008517

PROCESSOR ORDER NO.

CUST FERGUSON METALS INC. 3475 SYMMES ROAD HAMILTON, OH 42015

Ö

FERGUSON METALS INC

3475 SYMMES ROAD

FERGUSON METALS INC/AERO METAL PROCESSING DIVISION

PART NO. 11156

MILL ORDER NO.

271940-0533

ENGLISH-UNITS -: PRODUCT: - METRIC UNITS -0620 NOM) 36,0000 X COIL

01008517

6 HAMILTON, OH 45015

*							17		 	
PARENT COIL	POS	DIR	COND	ASTM	GRAIN	BEND		T in the second		
ID	(F/I)	(L, T, D)		A 262 PRACTICE E	SIZE ASTM E112	180 1T				
0686188-02B	T		A.S.T.M	PASS	8.50	PASS				
0686188-02B	F		A.S.T.M	PASS	8.50	PASS				

THE CHEMICAL ANALYSIS AND PHYSICAL OR MECHANICAL TESTS REPORTED ABOVE ARE CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION.

ALL TESTING IS DONE IN ACCORDANCE WITH A.S.T.M STANDARDS UNLESS OTHERWISE NOTED

AK Steel Corporation

MWQC#0049 5/99

"THIS CERTIFIED TEST REPORT HAS BEEN DELIVERED TO A CONSIGNEE OF MATERIAL PURCHASED FROM AK Steel Corporation. TO AVOID THE POSSIBILITY OF ITS MISUSE ON DELIVERY OF THE REPORT TO A THIRD PARTY IT MUST BE RECERTIFIED BY AND UNDER THE NAME OF SUCH CONSIGNOR.

APPLICATION ENGINEER